

TView Gold Card

User's Guide

Rev. 1.0

FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the installation manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- This unit was tested with shielded cable. Therefore, for continued compliance, use the shielded cables provided with the unit.
- Re-orient or relocate the unit or receiving antenna.
- Increase the separation between the computer/converter and television.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You may find the following booklet helpful:

How to Identify and Resolve Radio-TV Interference Problems (stock number 004-000-000345-4)

To order the booklet, write to:

The U.S. Government Printing Office
Washington D.C. 20402

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About the User's Guide

The TView Gold Card User's Guide is designed to help you to quickly and easily connect the hardware and install the software for this product. The guide is divided into the following chapters:

Chapter 1: Introduction, *which describes the key features and functionality of the product and some of its many uses. The chapter also discusses the notation conventions used in the guide.*

Chapter 2: Installing the Hardware, *which describes the information you should know before installing and connecting the TView Gold Card hardware, and the steps required to perform the installation.*

Chapter 3: Installing the Software, *which describes the installer software, the steps required to perform the installation, what you get with the software, and how to use the applications.*

Chapter 4: Image Control, *describes how to use the TView Gold Card software to adjust the PC image on your television. It also describes the steps involved in configuring your computer's video output.*

Chapter 5: Tuning Your Television, *this chapter describes the methods you can use to tune the image on your television.*

Chapter 6: Troubleshooting, *describes possible problems that you might encounter and ways to solve them.*

Notation Conventions

This user's guide uses the following conventions to specify certain types of information.



Warns you about potential problems and hazards during the installation or use of the product. Read these warnings carefully, and be sure you understand how they relate to the installation procedures before proceeding.

Note: Points out important or useful information.

Ordering Information

To get information on the reseller nearest to you or to order replacement parts, contact one of the following:

Worldwide Headquarters
142 North Road
Sudbury, MA 01776
978-371-2000
800-538-6000 (U.S. Only)

FOCUS Enhancements, B.V.
Schipholweg 110
Kantorenhuis
2316 XD Leiden NL
31-71-524-1841

European Support:

UK	0800-963-964
Germany	0130-82-21-50
France	0800-90-61-06
Netherlands	020-581-37-34
Sweden	020-79-57-18
Other European Support	+31-20-581-37-36

On-line:

<http://www.FOCUSinfo.com>

e-mail: info@FOCUSinfo.com

Chapter 1

Introduction

The TView Gold Card converts the video output from your computer into video that can be displayed on a television or recorded to a VCR. The TView Gold Card automatically detects VGA and SGVA output frequencies up to 72Hz and synchronizes it with your television. The result is a high quality, flicker-free television display from your computer.

Features

The TView Gold Card includes the following features:

- Screen position controls
- Easy plug-and-play installation for both Windows95™, and Windows 98™ platforms.
- Compatibility with any size television monitor (NTSC/PAL) with an RCA (composite) or S-Video input connector.
- Support for both 640 x 480 (VGA) 800 x 600(SVGA), and 1024 x 768 (XGA) resolution
- Support for 24-bit color
- 2x image zoom with pan control
- TrueScale™ image compression that precisely fits the image on your television without dropping lines or altering video resolution
- Electronic Marker™ Software

Modes of Operation

The TView Gold Card has ability to operate in three separate modes:

Presentation Mode: Display the same image on your computer VGA (or compatible) monitor and television simultaneously.

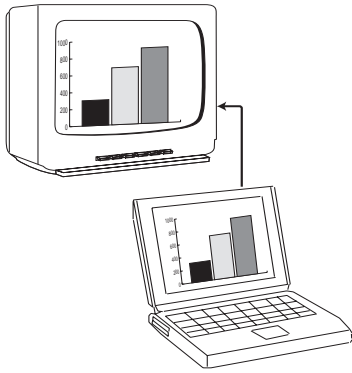


Figure 1-1: Presentation Mode

Television Only Mode: Use the television as your only display.

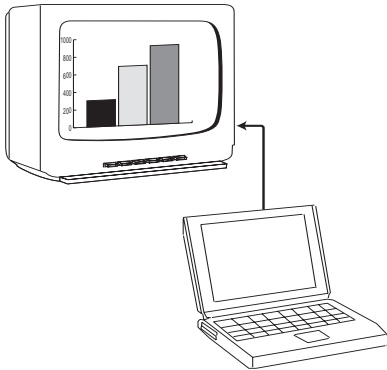


Figure 1-2: Television Only Mode

Video Record Mode: Record your video image directly to video tape.

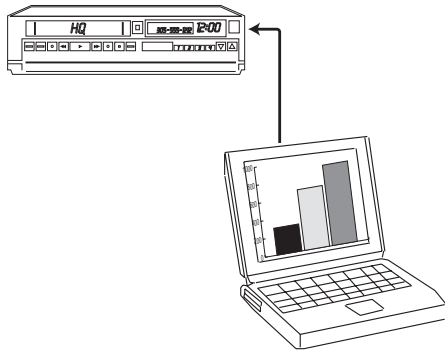


Figure 1-3: Video Record Mode

Suggested Uses for the TView Gold Card

The TView Gold Card can be used for many purposes. For example:

- Bring sales or other multimedia presentations from a portable to a large TV
- Create training tapes or outfit a training room
- Demonstrate a new software package using a large screen TV
- Project computer games onto a TV screen
- Cruise the internet on a television
- Conferencing via TV
- E-Mail
- Collaborating with others on computer-based projects

Specifications

Table 1: TView Gold Card Specifications.

Computer Compatibility	<ul style="list-style-type: none"> Any Window95™, Windows 98™ Portable Computer with a PC slot and video out.
Television Compatibility	<ul style="list-style-type: none"> Works with any size television monitor (NTSC/PAL) with an RCA (composite) or S-Video input connector. For television receivers or televisions without composite or S-Video inputs, an RF Modulator is required (Radio Shack #15-1283)
Color Modes and Resolution	<ul style="list-style-type: none"> Supports up to 16,777,216 colors (24-bit), and up to 1024x768 75Hz (NTSC)
Unit Weight	<ul style="list-style-type: none"> 6.25 ounces
Unit Dimensions	<ul style="list-style-type: none"> 2.25" x 5.5" (without cables)

Chapter 2

Hardware Installation

This chapter describes the information you should know before installing and connecting the TView Gold Card hardware, and the steps required to perform the installation.

System Requirements

Before installation, the following are system requirements for the operation of the TView Gold Card :

IBM (or compatible)

- Portable computer with a 486 or higher processor
- Card + Socket Services 2.1 compliant
- Microsoft Windows 95, 98
- VGA or higher-resolution video adapter (SVGA recommended)
- A TV/monitor, VCR or any video device that can display or record NTSC video.

Pre-Installation Procedures

Before installing the hardware, you must unpack and inspect the equipment. This section discusses the steps for unpacking and inspecting the equipment.

Checking the Packing List

Check the packing list that is included in this manual. Compare the list with the equipment you have purchased. Be sure that you have received everything that is on the list. If anything is missing, contact FOCUS Enhancements Customer Service department by calling 1-800-538-6000.

Packing List

Your TView Gold Card includes the following items:

- TView Gold Card
- S-Video cable
- Composite video cable or SCART (Europe only) adapter cable
- TView Gold Card Installer Diskette
- Electronic Marker™ software
- User's guide and Quick-Start guide

Inspecting the Equipment

Before installing and connecting the hardware, inspect it for any damage that may have been incurred during shipment. Perform a thorough inspection, looking for dents, scratches, or loose parts. Look for anything that appears unusual or out-of-the ordinary. If any of the equipment is damaged, contact FOCUS Enhancement's Customer Service department by calling 1-800-538-6000.

Connecting the TView Gold Card to an IBM Compatible Portable Computer

This section describes the steps to connect your TView Gold Card to a television or VCR. The following sections describe how to connect to Portable IBM PC's.

Notes: 1. Before performing the steps to connect the TView Gold Card to a portable computer, you must turn on the external video connector. This is accomplished by using a particular key sequence on the keyboard (for example, FN + F11) or through the BIOS setup program. Refer to your computer's owner's manual to determine how the external video connector is turned on.

Perform the following steps to connect and install the TView Gold Card to a Portable PC:

1. Slide the TView Gold card into an available PC card slot. Windows will recognize the TView Gold Card as a new hardware device and start the Hardware install wizard.

Note: Using the top PC card slot will enable you to connect an additional PC card device in the lower slot.

2. Insert the installer disk into the floppy drive. When the Update Device Driver Wizard appears, click next.

Note: If the Device Driver Wizard does not locate the installer diskette, click on the "Back" button and try again.

3. After a few seconds you may be asked to insert the disk labeled "TView Gold Card Installer". If so, type in the drive letter for your floppy drive (typically, A)
4. Click on OK. Your computer will start to install the drivers to run your TView Gold Card.
5. Connect the male DB15 connector to the external monitor connector on the rear of your computer.

Note: Use A/C power to power the portable computer when using the TView Gold Card. If you use battery power, your video output may be interrupted to conserve power.

Connecting the TView Gold Card to a Television

The next step in connecting your system is to connect to the television. (If you are planning to connect to a VCR, see "Connecting to a VCR" below.) There are two possible ways to connect to a television:

- Using a composite video connection
- Using an S-Video connection

Composite Video Connection

Composite video is a connection type used by most televisions, VCRs, laserdisc players, and certain LCD panels. The connectors on a composite video cable have an RCA-type plug. The plug has a long metal pin projecting from its center and plugs into the composite video in port at the rear of the television.

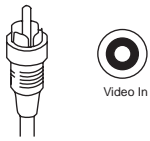


Figure 2-1: Composite Video Connectors

To determine if your television supports composite video, look for a port on your television that matches the composite video out port on the TView Gold Card Cable.

Note: The composite video port on the television may or may not be labeled "video in."

S-Video Connection

S-Video is a high-quality video connection used by some video cameras and VCRs. The connector on an S-Video cable has a round plug with four (4) small metal pins. It plugs into the S-Video output port on the TView Gold Card cable.

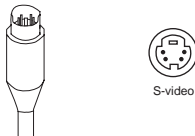


Figure 2-2: S-Video Connectors

Note: The S-Video connection is a newer video standard. This type connection improves color, clarity, and resolution. It is recommended that if S-Video connection is available it be used.

To determine if your television or supports S-Video, look for a port at the rear of the television that matches the S-Video output port on the TView Gold Card cable.

Note: The S-Video port on the television may or may not be labeled "S-Video in."

When you are looking at the television to make these connections, you may see an input labeled ANT IN. This input is used by cable TV companies and uses a different type of video than that used by TView Gold Card . It is not possible to connect directly to this input. If this is the only input available, and you do not have a VCR, this input can be used with an RF modulator. See below for further information.

To connect the TView Gold Card unit to your television, perform the following steps:

1. Connect one end of the supplied composite video cable or S-Video cable to the matching port on the TView Gold Card cable.
1. Connect the other end of the composite cable or S-Video cable to the Comp Video in or S-Video in port at the rear of the television.
2. Turn the television on and select the proper video input (S-Video

or Composite Video). You should now see your PC screen on the television.

Note: if your PC screen does not appear on the television screen immediately, check to see that you have turned on the external monitor port. on your computer

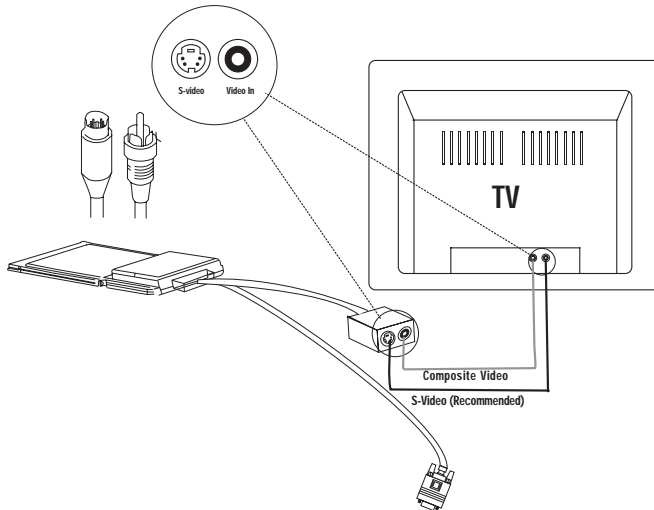


Figure 2-4: Connecting TView Gold Card to the Television

Note: Because the port may not be labeled, you will need to match the port to the connector you are using.

Connecting to the Television Using an RF Modulator

If you do not have a television with composite video or S-Video, you

will need a special adapter called an RF Modulator. This device converts the Composite Video signal from the TView Gold Card unit to an antenna signal. The RF Modulator is not supplied. FOCUS Enhancements Technical Support recommends using the Radio Shack RF Modulator (Radio Shack part number 15-1283).

Note: When using an RF Modulator, the TV may have to be set to a particular channel (for instance, 3 or 4) to accept the TView Gold Card's video. Or, in some cases, you may have to specify input using the TV's on-screen programming feature. If you are unsure about how to set your television to accept external video through the Antenna In, refer to the television owner's manual.

To connect the TView Gold Card to your television using the RF Modulator, perform the following steps:

1. Connect the RF Modulator to the coaxial input at the rear of the television.
2. Connect one end of the composite video cable to the matching port on the TView Gold Card cable.
3. Connect the other end of the composite video cable to the RF Modulator's Composite Input at the rear of the television.
4. Plug RF modulator into wall outlet or surge protector
5. Turn your computer on.
6. Turn the television on. If the cables have been connected correctly, the image from the computer monitor should now appear on the television screen.

Connecting the TView Gold Card to a VCR

In certain configurations, the video will be run through a VCR. Therefore the unit must be connected to the VCR. By connecting the TView Gold Card unit you will also be able to record the computer screen to videotape.

To connect your TView Gold Card to a VCR, perform the following steps:

1. Connect one end of the supplied composite video cable or S-Video cable to the matching port on the TView Gold Card cable.
2. Connect the other end of the composite cable or S-Video cable to the port at the rear of your VCR labeled "Video Input" or "AUX-IN," "AV-IN," or "S-VIDEO IN."
3. Turn on the VCR.
4. Turn on your television and tune it to channel 3 or 4.
5. Turn the computer on.
6. Find a button on the front of the VCR called "Line," "TV/Video," "Video Input," or something similar. Press the button. If the cables have been connected correctly, the image from the computer monitor should now appear on the television screen.

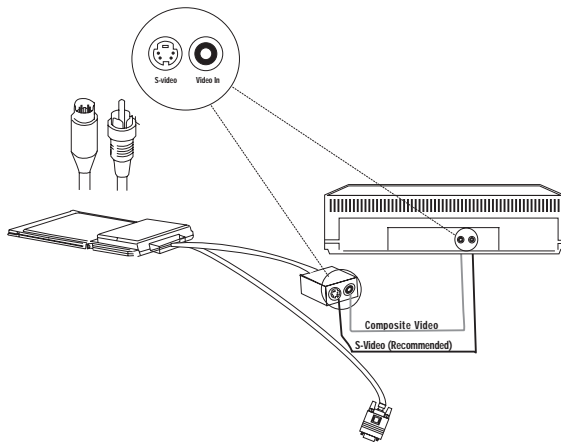


Figure 2-5: Connecting the TVView Gold Card to a VCR

Note If your VCR does not have a button specifying video-in, use your VCR's remote control to find an on-screen programming system. Using the programming system, set the VCR to receive external video. If you are unsure about how to do this, refer to the VCR owner's manual.

Chapter 3

Software Installation

This chapter describes the TView Gold Card Installer software, the steps required to perform the installation, what you get with the software, and how to use the applications.

Windows Installation

What's on the Disk(s)?

The disk(s) allow you to install three utilities:

- **TView Fonts:** The TView font files are installed in the Windows System subdirectory. The TV fonts that are installed are easy-to-read fonts, recommended if you are using small type fonts when displaying on TV.
- **Control Panel:** Control Panel is a software application that enables you to operate the TView Gold Card.
- **Electronic Marker:** A software application that allows the user to annotate the PC screen.

Windows 95/98 Installation

To install the software on your Windows 95 system, perform the following steps:

1. Insert the TView Gold Card Installer disk in your disk drive.
2. Double-click on the My Computer icon.

3. Double-click on the A drive.

Note: In this case, A represents the letter of your diskette drive. Use whichever letter has been assigned to the floppy drive on your system.

4. Double-click on "TView Gold Card."
5. Double-click on the "setup" icon.
6. Follow the setup program instructions.

How to Use the Gold Card Control Panel

The TView Gold Card Control Panel will enable you to manipulate several aspects of the computer image.



Figure 3-1 Control Panel Window

1. Double-click on the Gold Card Icon. The Control Panel opens.

2. In the TV Format Box, choose one of the two (2) options:
 - NTSC (TV Display - US and Japan)
 - PAL (TV Display - Europe)
3. In the Output Format Box, choose one of the three (3) options:
 - Composite Video
 - S-Video
 - SCART
4. Use the 4 directional arrows to adjust the positioning of the display or use the reset button to return to the default setting.
5. Use the Zoom button to enlarge the size of the computer display on the television. The Zoom button allows you to enlarge the image to 2x normal size. To return to a normal size PC screen, press the Zoom Button again
6. Use the sliding controls in the Picture Box to control the Sharpness and Brightness of the computer image

TV Fonts

The TV fonts included with this software are large and easy to read. They are recommended if your system fonts are small type fonts.

Using the TV Fonts in Windows 95/98

To select the TV fonts for your Windows 95 system, perform the following steps:

1. Left click on the START button.
2. Select "Settings."
3. From the drop-down menu, select Control Panel.
4. Double-click on "Display." The Display Properties window appears.
5. Select the "Appearance" tab.
6. Click on "Scheme." A drop-down menu with a list of font types appears. Scroll down the list and select "TV."
7. Click "Apply." The text on the screen will now appear in the TV font.

Chapter 4

Image Control

This chapter describes the steps involved in configuring your portable computer's video output.

Changing Screen Resolutions

Windows 95/98

To change screen resolutions perform the following steps:

1. Click on the "Start" button.
2. Choose "Settings" and go to the "Control Panel" submenu.
3. Double-click on the "Display" icon.
4. Click on the "Settings" tab.
5. Choose a desktop area (640 x 480 up to 1024 x 768) by moving the "Desktop Area" slider from left to right.
6. IMPORTANT: Click on "APPLY" first, and then "OK."
7. Click the "Start" button. Choose "Shut Down."

8. Select "Restart the Computer."
9. Restart Windows. The newly selected settings will be used.

Note: If the first choice does not work properly, try other choices. This is for PAL or NTSC modes.

Chapter 5

Tuning Your Television

This chapter describes the methods you can use to tune the image on your television.

Using Your Television's Video Settings

Picture quality varies from television to television. To obtain the clearest and sharpest picture from your television, it is important to spend some time adjusting the television's video settings. The following are some suggestions for tuning the video output you see on the screen.

Note: The items listed below are general tips for all televisions. Most televisions have one or more of the controls listed. However, the results of adjusting these items depend on your specific television.

Note: Depending on the model of the television, the image is adjusted using buttons or on-screen programming. Check your owner's manual to determine how the image is adjusted on your television.

Brightness

The Brightness adjustment on the television adjusts the brightness levels of black areas of the picture. Raise or lower the brightness until the picture appears bright without a "blooming" effect. The sides of the picture should be straight, not curved or bowed.

Color

The color adjustment on the television adjusts the intensity of the colors in the picture. Adjust the color control until the picture is clear and has a minimal amount of "color-bleeding." If the color is turned up too high, the color will be over-saturated.

Sharpness

The Sharpness adjustment on your television adjusts the clarity of the edges around objects for the clearest picture quality. The general rule when adjusting sharpness is to turn it up anywhere from its middle to highest level.

Tint or Hue

The Tint or Hue adjustment on your television adjusts the color of the flesh tones to more Green or red. The most effective way to use this adjustment is to display row or column of colors side-by-side and then adjust them until the color appears correct to you.

Chapter 6

Troubleshooting

This chapter describes possible problems that you might encounter and ways to solve them.

Problem	Possible Causes/Solutions
No video from the TView Gold Card	<ul style="list-style-type: none"> • Check the connection from the computer's video output port to the video cable on the Gold Card unit. • Check the connection from the comp video out port or S-Video out port to the input on your monitor or VCR. • Ensure that the TV or VCR is ON. • Check the connection of the Gold Card in the PC Card Slot. Is the card seated completely into the card slot? Is your computer's power supply plugged in? • Ensure that your television or VCR has been configured to accept auxiliary video input. • Ensure that the TView Gold Card is connected to the appropriate video connector on your TV or VCR. At the TV or VCR end, the cable should be connected to the VIDEO, VIDEO IN, or AUX port.
Picture Rolls	<ul style="list-style-type: none"> • Ensure that your secondary monitor and computer monitor size are supported by the TView Gold Card • Check and adjust vertical hold and horizontal hold controls on your TV/monitor.
Flicker, or other	<ul style="list-style-type: none"> • Use of an RF modulator may cause image quality

Distortion on your screen	problems. If at all possible, avoid those devices that convert the TView Gold Card signal into an antenna signal.
Colors are poor quality or non-existent	<ul style="list-style-type: none"> • Adjust the color and contrast controls on your TV. • Adjust the brightness control of the TView Gold Card . • Use of an RF modulator may cause image quality problems. If at all possible, avoid those devices that convert the TView Gold Card signal into an antenna signal.
TV image overshoots or fails to fill the screen	<ul style="list-style-type: none"> • Use the on-screen control to adjust size and positioning. • Adjust the vertical and horizontal size controls on your TV.
TView Gold Card failure	<ul style="list-style-type: none"> • Inspect the TView Gold Card unit for signs of damage (i.e. broken pins, severed wires, etc.).

Returning a Damaged or Failed TView Gold Card Unit

To return a TView Gold Card unit, follow these steps:

1. Contact FOCUS Enhancements Technical Support at 1-978-371-8500. A representative is available from 9:00 AM to 8:00PM Eastern Standard Time (EST). Explain the nature of the problem and any evidence of damage you may have found. The customer representative will either assist you with the specific problem or give you a Return Materials Authorization Number.

Note: No goods will be accepted for warranty repair or return without an RMA number.

2. Pack the TView Gold Card carefully. If possible, use the original shipping package. Send the package pre-paid and insured via United Parcel Service (UPS), FedEx, or Airborne Express to:

FOCUS Enhancements

ATTN: RMA# (*Your RMA Number*)

142 North Road

Sudbury, MA 01776

FOCUS Enhancements will repair or replace your TView Gold Card within 5 working days. For units not covered under the 1-year warranty, or where the warranty has been voided, a minimum fee of \$90.00 must be paid.

Limited Warranty

FOCUS Enhancements, Inc. warrants this product against defects in materials and workmanship for a period of ONE (1) YEAR from the date of original purchase.

If you discover a defect, FOCUS Enhancements, Inc. will, at its sole option, repair or exchange the product at no charge to you, provided you contact FOCUS Enhancements, Inc. Technical Support to obtain a Return Material Authorization (RMA) Number and instructions on where and how to obtain repair. Note that a copy of the bill of sale bearing the FOCUS Enhancements, Inc. serial numbers as proof of date of original purchase is required for each product returned for warranty service. Before returning product, remove all non-FOCUS Enhancements, Inc. RAM, accessories, and options. FOCUS Enhancements, Inc. cannot be liable for the return or care of any non-FOCUS Enhancements, Inc. products, nor accept responsibility for loss or damage of product in transit.

This warranty does not apply if the product has been damaged by accident, installation or removal of product, abuse, misuse, misapplication, accident, neglect, fire, water, lightening, or other acts of nature, failure to follow supplied instructions; has been modified, repaired or undergone attempted repair by unauthorized personnel without the written consent of FOCUS Enhancements, Inc.; has a serial number that has been removed, modified, or defaced. FOCUS Enhancements, Inc. reserves the right to use re-manufactured, refurbished, or used parts and components in making warranty repairs.

FOCUS Enhancements, Inc. products are designed to work with Windows™ and MacOS™ computers. Certain features of third-party software or hardware designed for the host system may not be available when used with this product. Accordingly, FOCUS

Enhancements, Inc. does not warrant or represent that all third-party software or hardware will function error-free when used in conjunction with this FOCUS Enhancements, Inc. product.

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Some states do not allow the inclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

Product specifications and information are subject to change without notice.